

FIG. 1C

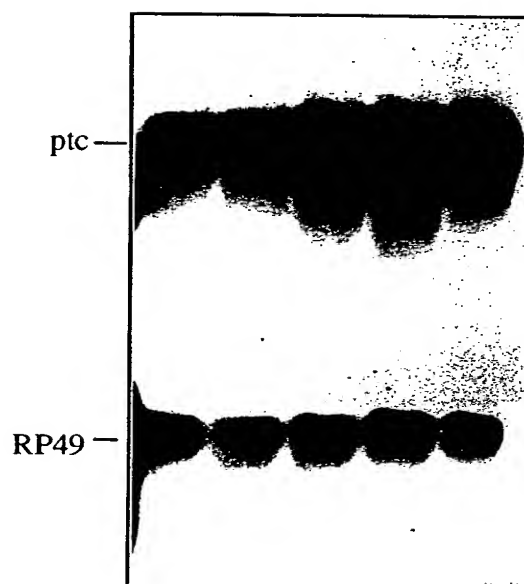


FIG. 1D

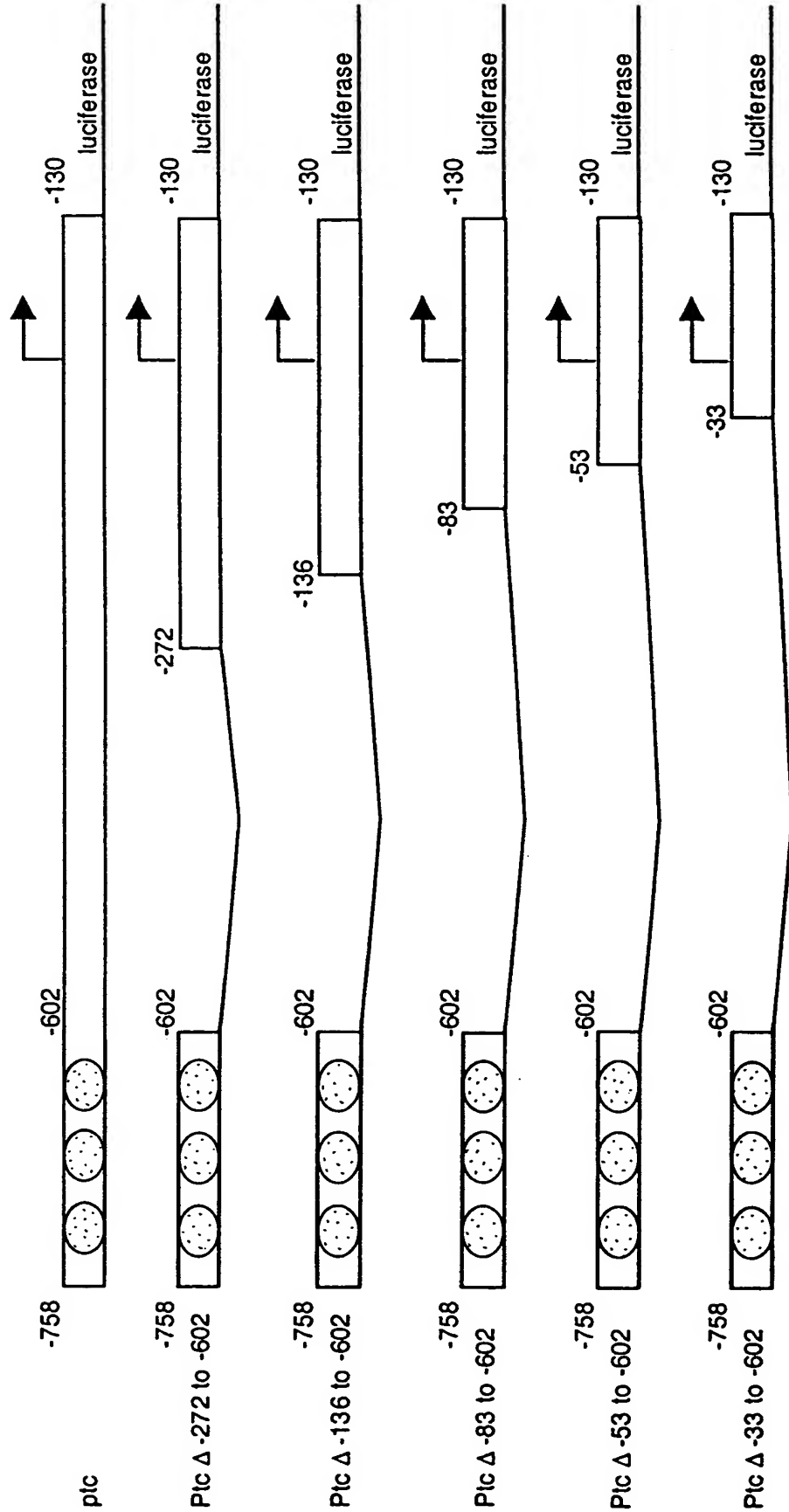
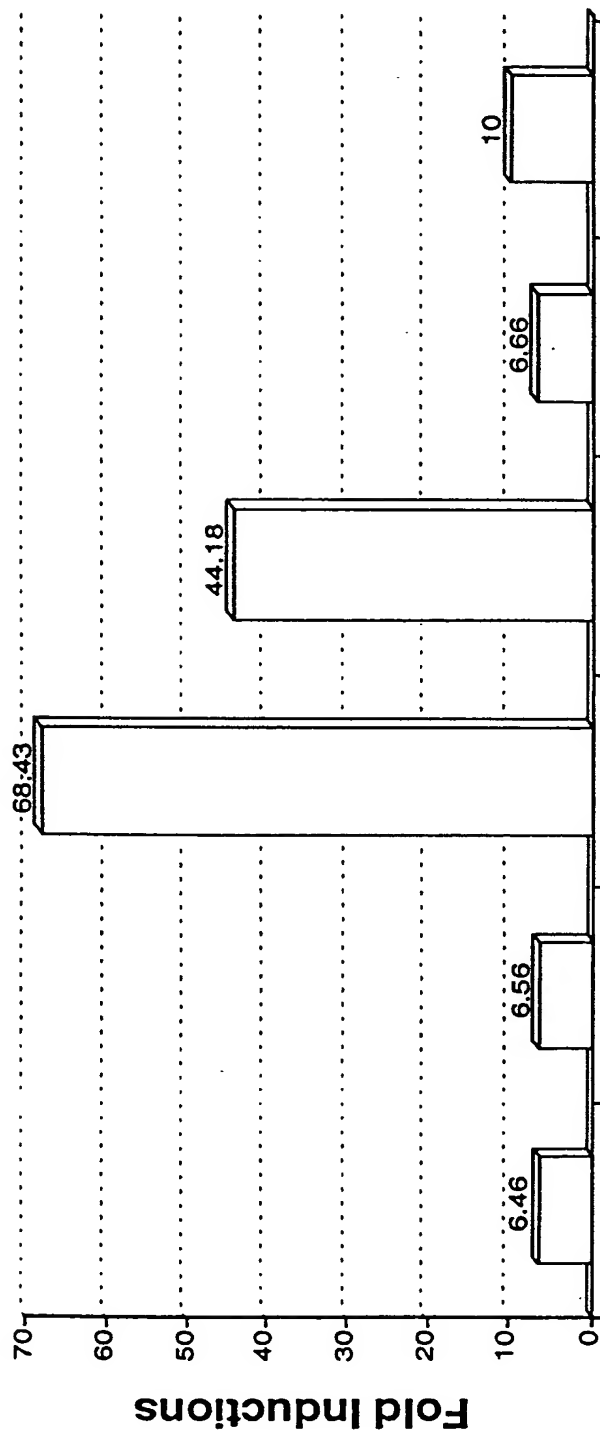


FIG. 2A

## Ptc promoter truncations



| Luciferase/<br>Renilla | <i>ptc</i> | <i>ptc</i> Δ -272<br>to -602 | <i>ptc</i> Δ -136<br>to -602 | <i>ptc</i> Δ -83<br>to -602 | <i>ptc</i> Δ -53<br>to -602 | <i>ptc</i> Δ -33<br>to -602 |
|------------------------|------------|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| HH-N +                 | 21.26      | 28.52                        | 26.69                        | 11.93                       | 0.32                        | 0.41                        |
| HH-N -                 | 3.29       | 4.35                         | 0.39                         | 0.27                        | 0.05                        | 0.04                        |
| HH-N +/<br>HH-N -      | 6.46       | 6.56                         | 68.43                        | 44.18                       | 6.66                        | 10                          |

FIG. 2B

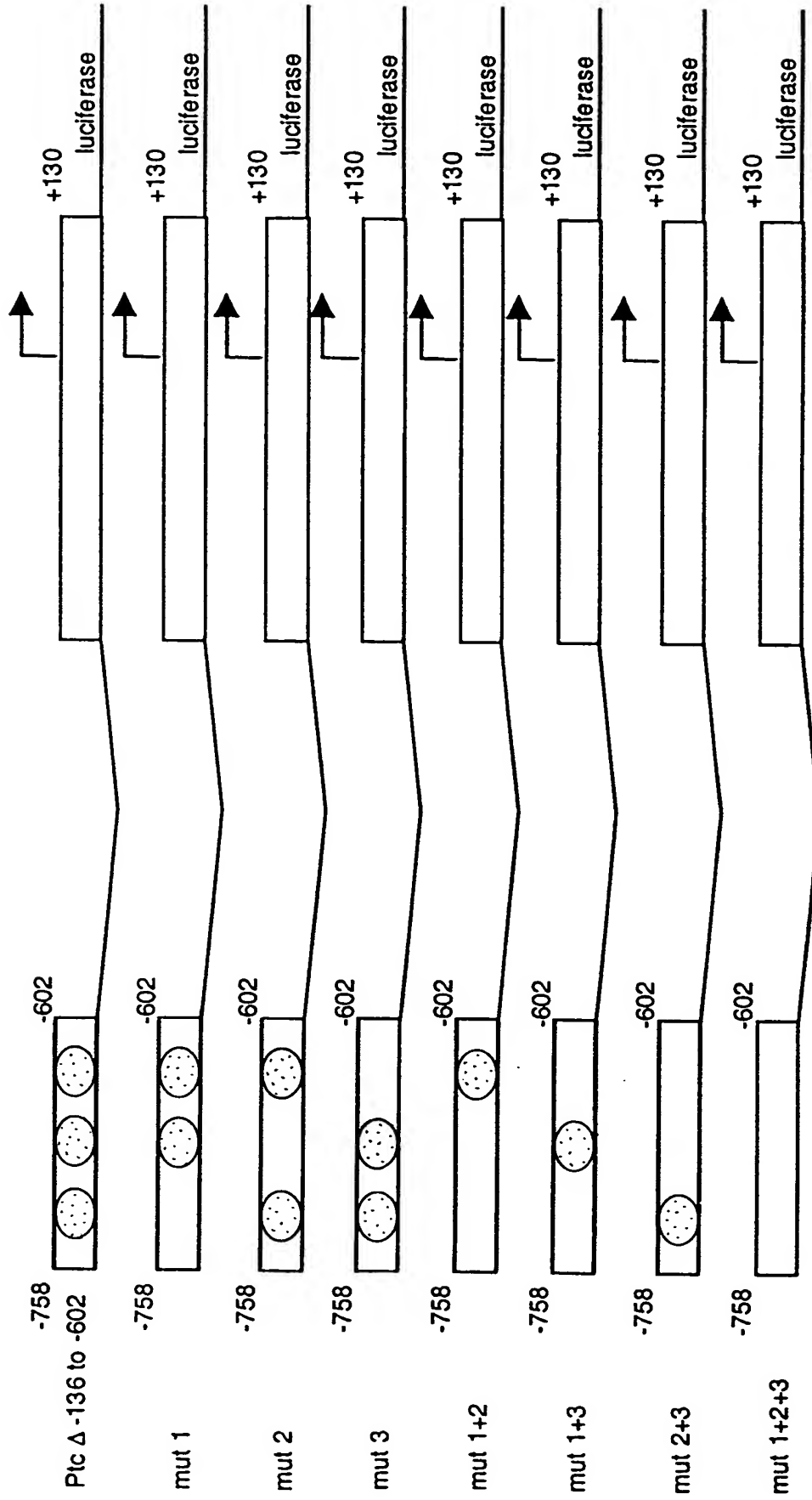
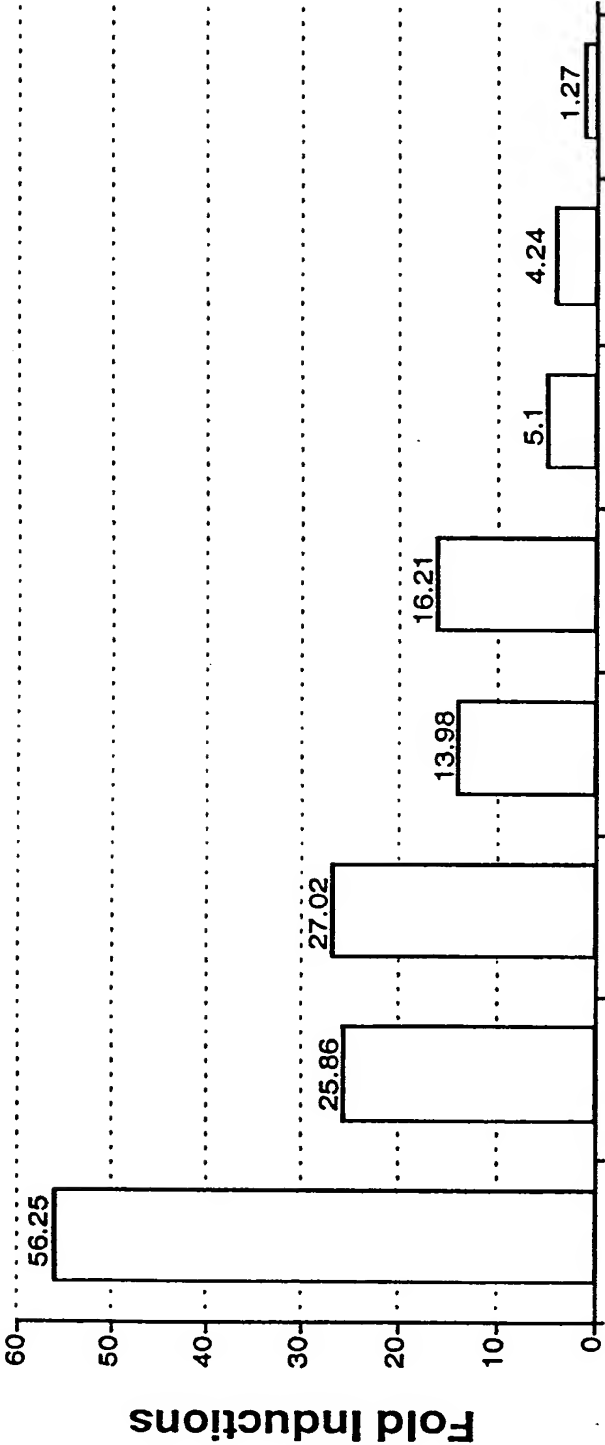


FIG. 2C

Ci binding sites mutagenesis



| Luciferase/<br>Renilla | ptc   | mut 1 | mut 2 | mut 3 | mut 1+2 | mut 1+3 | mut 2+3 | mut 1+2+3 |
|------------------------|-------|-------|-------|-------|---------|---------|---------|-----------|
| HH-N +                 | 10.80 | 3.75  | 4.54  | 7.69  | 3.08    | 2.81    | 2.63    | 0.25      |
| HH-N -                 | 0.19  | 0.14  | 0.17  | 0.55  | 0.19    | 0.55    | 0.62    | 0.20      |
| HH-N +/-<br>HH-N -     | 56.25 | 25.86 | 27.02 | 13.98 | 16.21   | 5.1     | 4.24    | 1.27      |

FIG. 2D

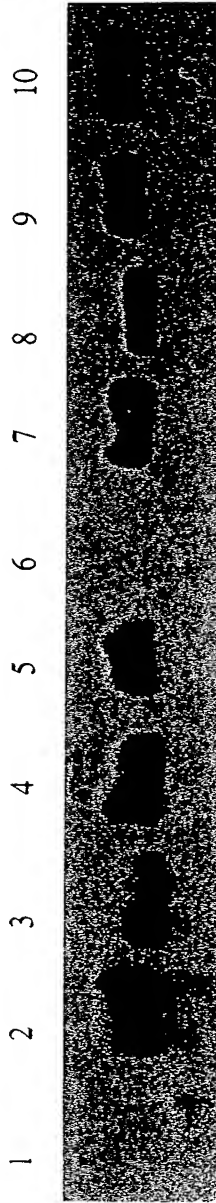


FIG. 3A

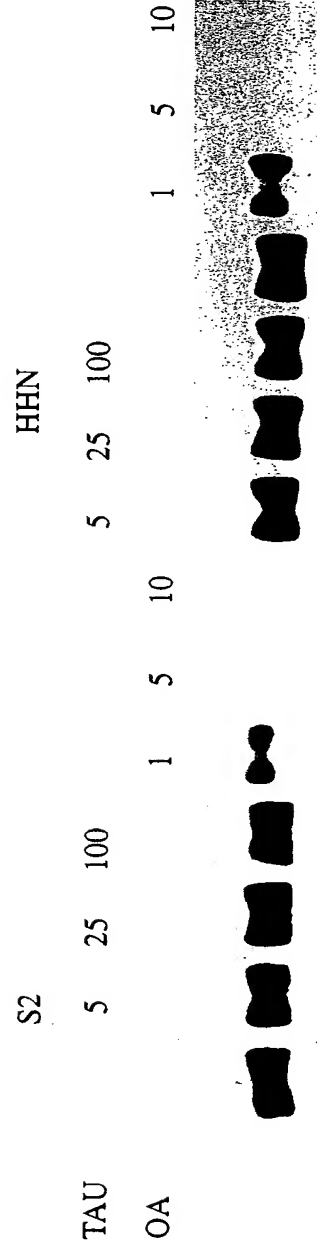


FIG. 3B

nuclear fraction

S2

N

cytoplasmic fraction

S2

N

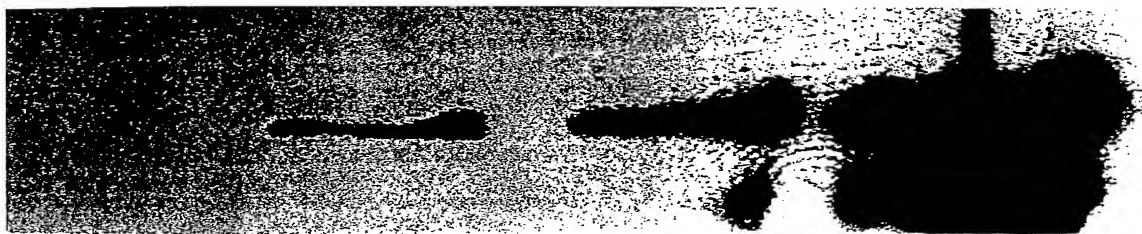


FIG. 4



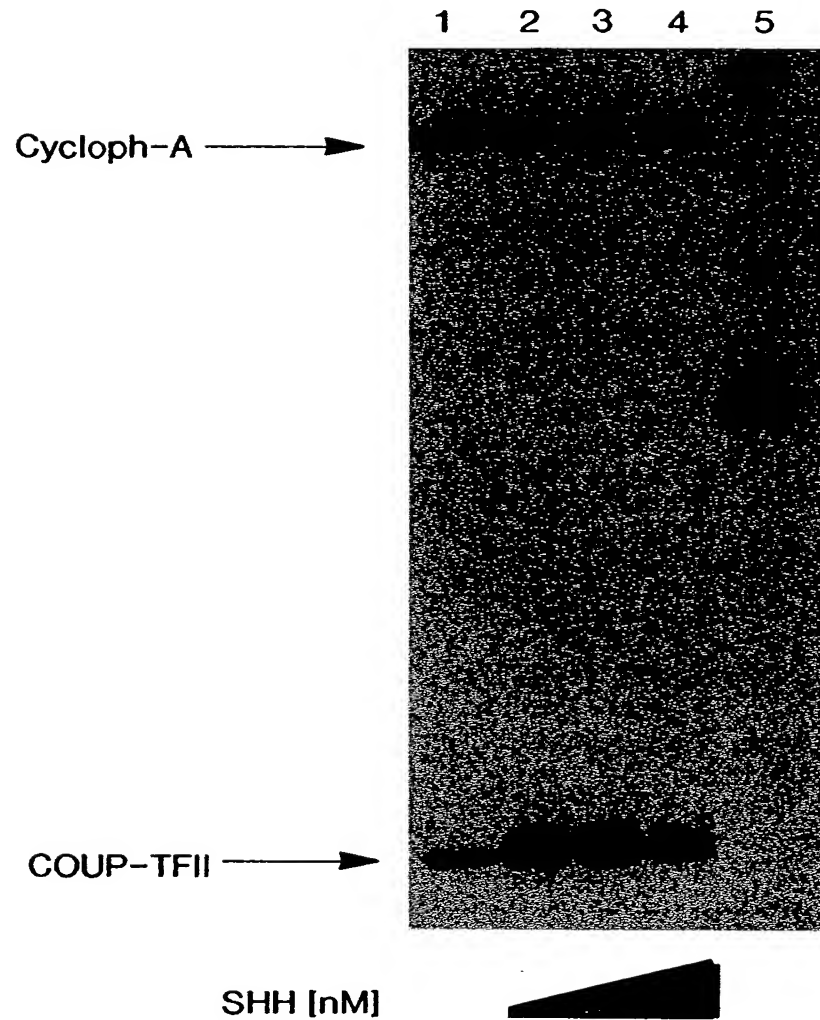


FIG. 5A

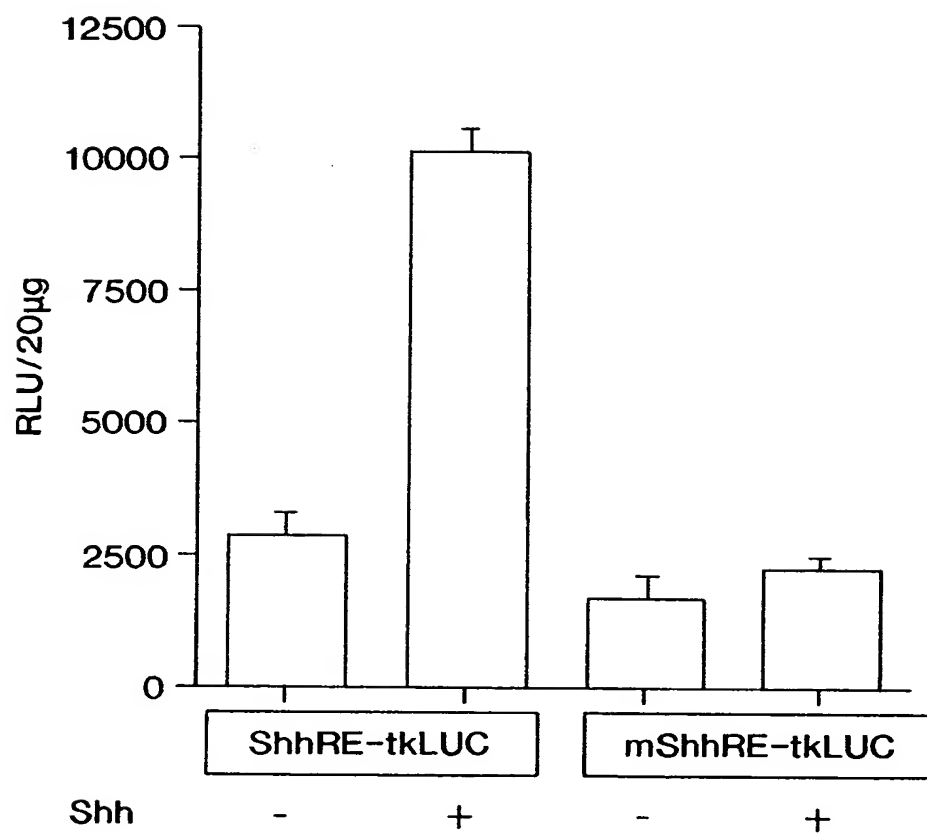
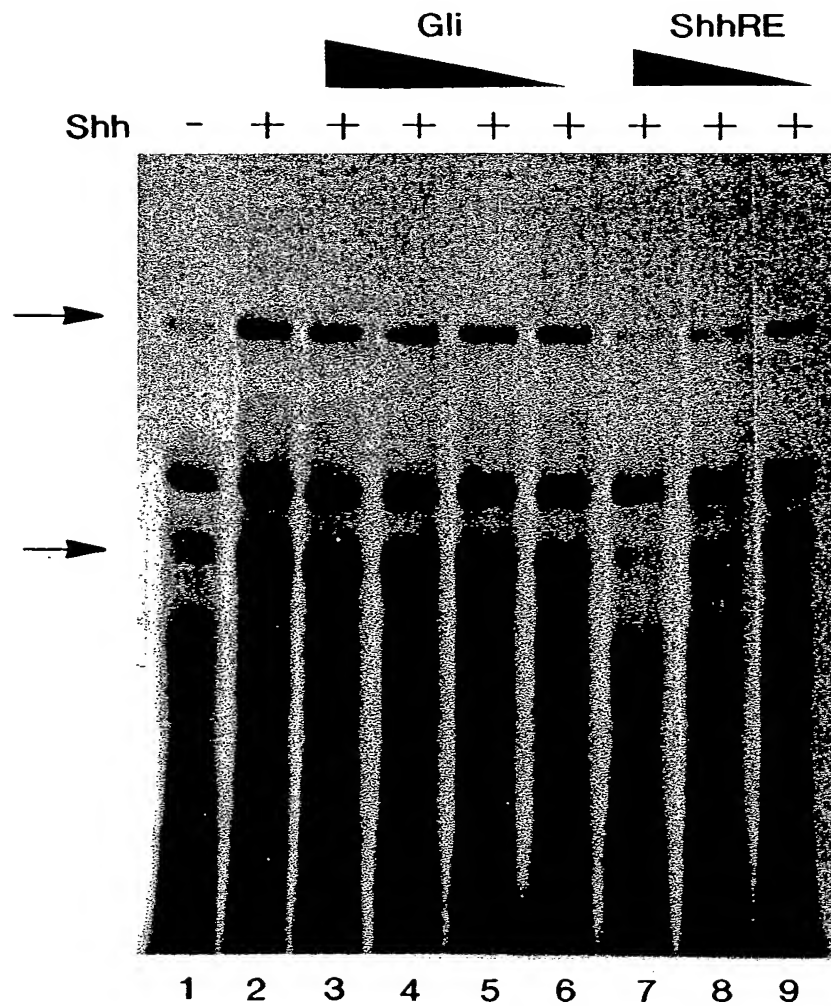


FIG. 5B



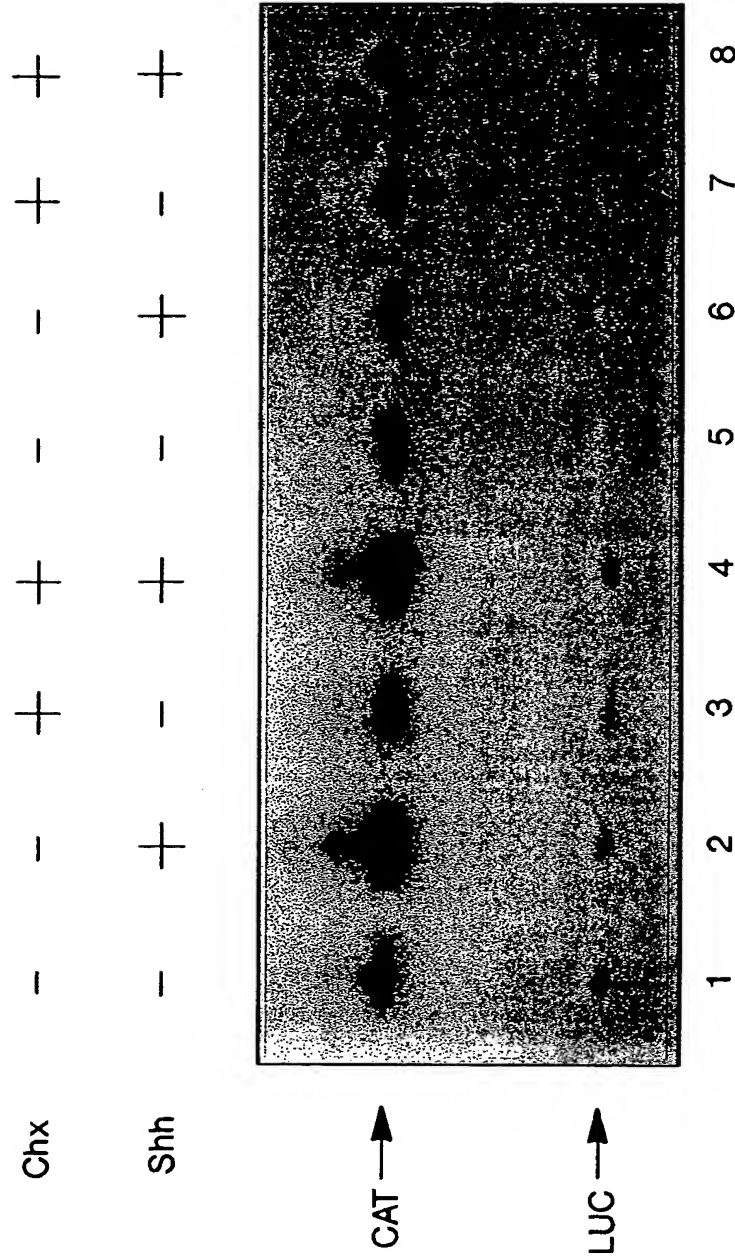


FIG. 6

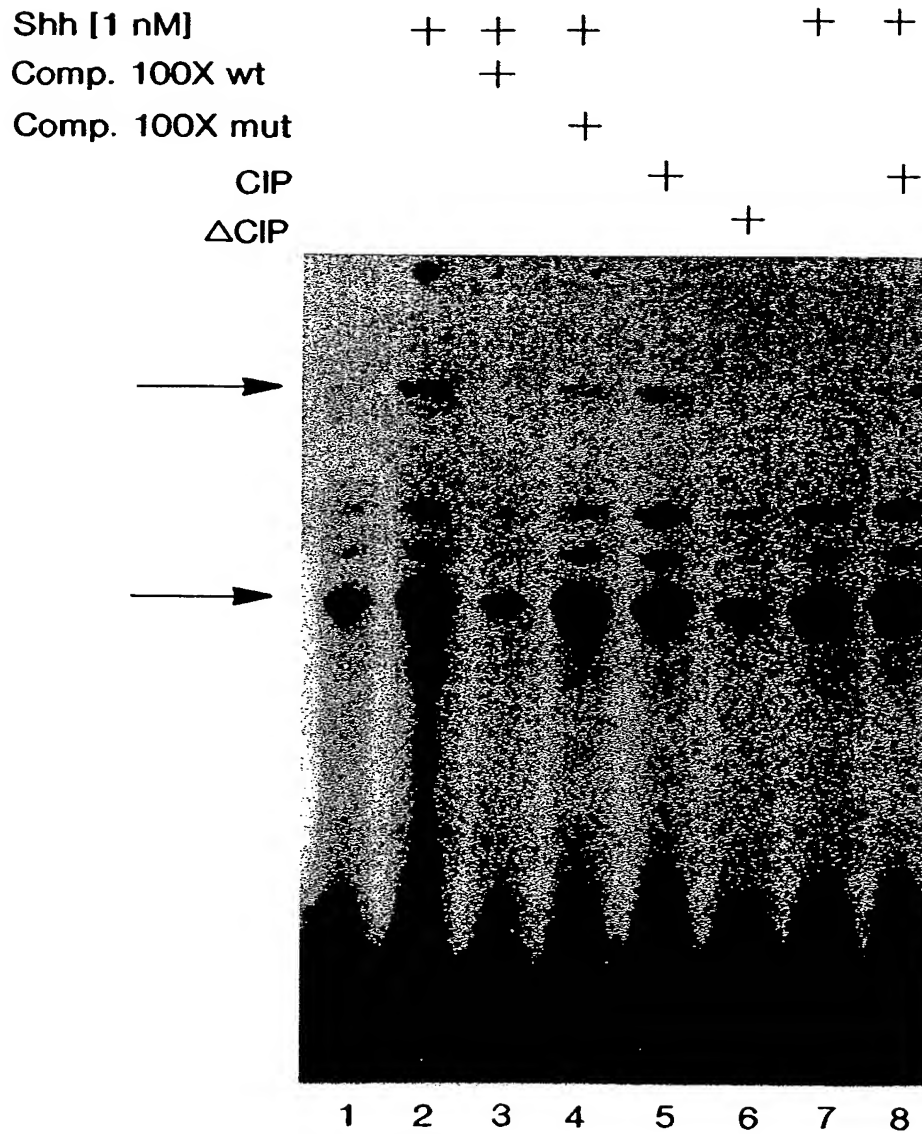


FIG. 7A

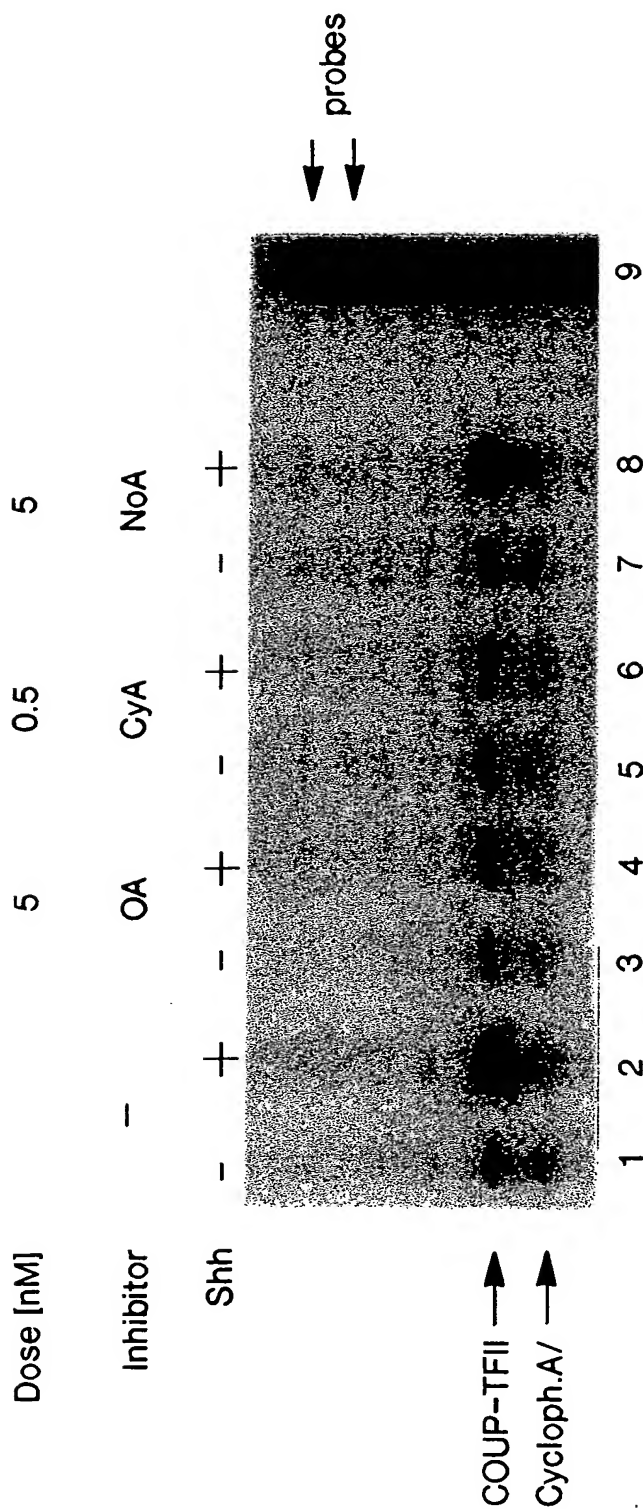


FIG. 7B

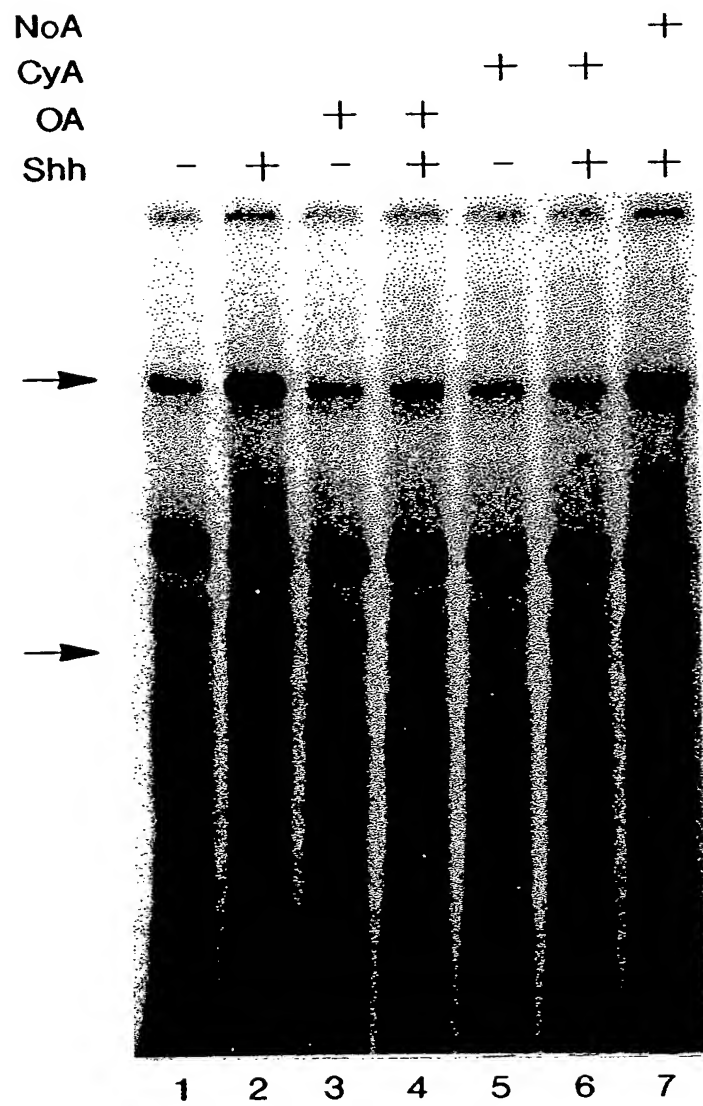
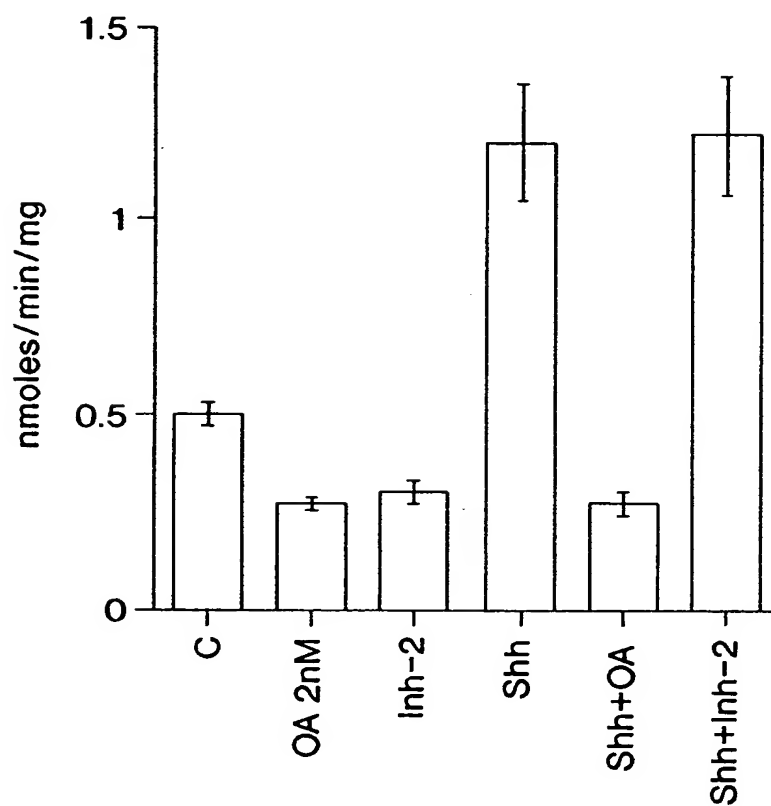


FIG. 7C

# PHOSPHATASE ACTIVITY IN Shh-INDUCED P19 CELLS



Inh-2=specific inhibitor of PP1

FIG. 7D



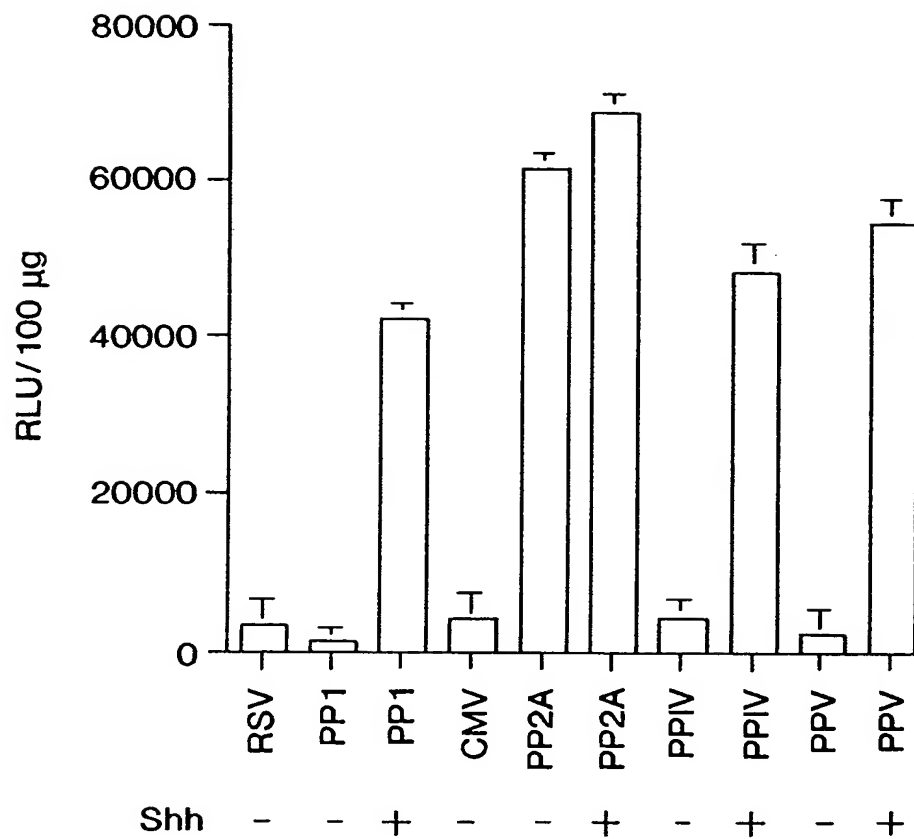


FIG. 7E

**FIG. 8A**

Inhibition of Islet1 Expression by OA in Neural Tube Explants

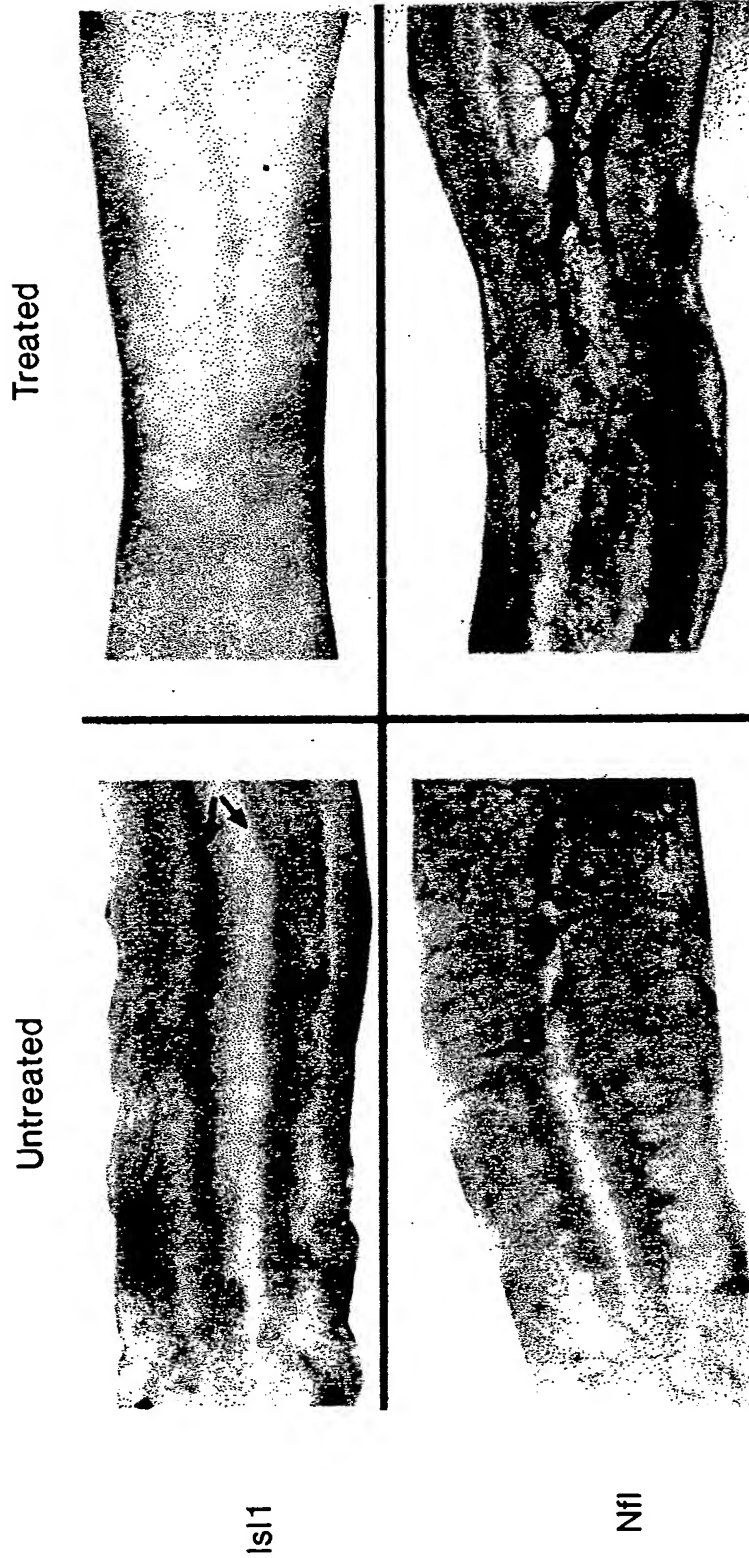


FIG. 8B

GLiRE-MEDIATED ACTIVATION BY Shh IS INHIBITED BY OA

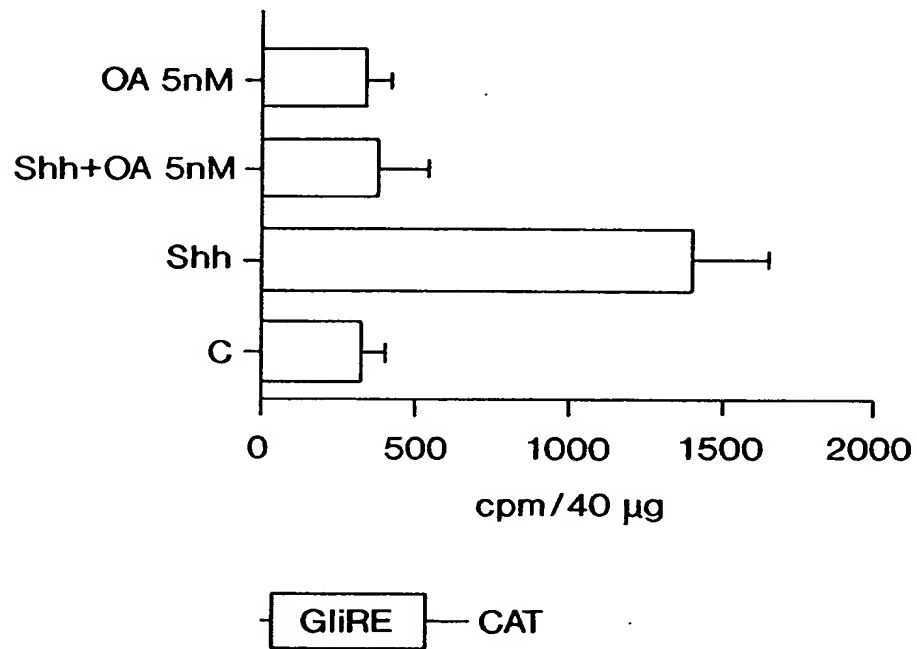


FIG. 8C